

(12) **United States Patent**
Lee

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(54) **SHOE INSOLE SENSOR FOR WALK DIAGNOSIS AND SHOE INSOLE FLEXIBLE BOARD COMBINED WITH THE SAME**

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(58) **Field of Classification Search**

None

See application file for complete search history.

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(57) **ABSTRACT**

A shoe insole sensor includes a body including a plurality of recessed regions formed at respective locations corresponding to vertexes of N-polygon, where N is an even number, a plurality of first protrusions formed in odd recessed regions of the recessed regions, where each of the first protrusions has a first height, and a plurality of second protrusions formed in even recessed regions of the recessed regions, where each of the second protrusions has a second height different from the first height. Here, the body is formed with a nonconductive material, each of the first protrusions is formed with a conductive material, and each of the second protrusions is formed with a conductive material.

4 Claims, 11 Drawing Sheets

